(iii) CHAIRPERSON.—The Secretary shall select a Chairperson for the Council from among the members appointed under clause (i).

(C) MEETINGS.—

(i) IN GENERAL.—The Council shall meet not less than once a year.

(ii) FEDERAL ADVISORY COMMITTEE ACT.—The Federal Advisory Committee Act (5 U.S.C. App. 2) shall apply to a meeting of the Council.

(D) PLANS.—No later than 1 year after the date of enactment of this Act, in conjunction with the Secretary, the Council shall develop 5-year plans for integrating basic and applied research so that the United States retains a globally competitive domestic energy storage industry for motor transportation and electricity transmission and distribution.

(E) REVIEW.—The Council shall—

(i) assess the performance of the Department in meeting the goals of the plans developed under subparagraph (D); and

(ii) make specific recommendations to the Secretary on programs or activities that should be established or terminated to meet those goals.

(4) BASIC RESEARCH PROGRAM.—

(A) BASIC RESEARCH.—The Secretary shall conduct a basic research program on energy storage systems to support motor transportation and electricity transmission and distribution, including—

(i) materials design;

(ii) materials synthesis and characterization;

(iii) electrolytes, including bioelectrolytes;

(iv) surface and interface dynamics; and

(v) modeling and simulation.

(B) NANOSCIENCE CENTERS.—The Secretary shall ensure that the nanoscience centers of the Department—

(i) support research in the areas described in subparagraph (A), as part of the mission of the centers; and

(ii) coordinate activities of the centers with activities of the Council.

(5) APPLIED RESEARCH PROGRAM.—The Secretary shall conduct an applied research program on energy storage systems to support motor transportation and electricity transmission and distribution technologies, including—

(A) ultracapacitors;

(B) flywheels;

(C) batteries;

(D) compressed air energy systems;

(E) power conditioning electronics; and

(F) manufacturing technologies for energy storage systems.

(6) ENERGY STORAGE RESEARCH CENTERS.—

(A) IN GENERAL.—The Secretary shall establish, through competitive bids, 4 energy storage research centers to translate basic research into applied technologies to advance the capability of the United States to maintain a globally competitive posture in energy storage systems for motor transportation and electricity transmission and distribution.

(B) PROGRAM MANAGEMENT.—The centers shall be jointly managed by the Under Secretary for Science and the Under Secretary of Energy of the Department.

(C) PARTICIPATION AGREEMENTS.—As a condition of participating in a center, a participant shall enter into a participation agreement with the center that requires that activities conducted by the participant for the center promote the goal of enabling the United States to compete successfully in global energy storage markets.

(D) PLANS.—A center shall conduct activities that promote the achievement of the goals of the plans of the Council under paragraph (3)(D).

(E) COST SHARING.—In carrying out this paragraph, the Secretary shall require cost-sharing in accordance with section 988 of the Energy Policy Act of 2005 (42 U.S.C. 16352).

(F) NATIONAL LABORATORIES.—A national laboratory (as defined in section 2 of the Energy Policy Act of 2005 (42 U.S.C. 15801)) may participate in a center established under this paragraph, including a cooperative research and development agreement (as defined in section 12(d) of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. 3710a(d))).

(G) INTELLECTUAL PROPERTY.—A participant shall be provided appropriate intellectual property rights commensurate with the nature of the participation agreement of the participant.

(7) REVIEW BY NATIONAL ACADEMY OF SCIENCES.—Not later than 5 years after the date of enactment of this Act, the Secretary shall offer to enter into an arrangement with the National Academy of Sciences to assess the performance of the Department in making the United States globally competitive in energy storage systems for motor transportation and electricity transmission and distribution.

(8) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to carry out—

(A) the basic research program under paragraph (4) $50,000,000 for each of fiscal years 2008 through 2017;

(B) the applied research program under paragraph (5) $80,000,000 for each of fiscal years 2008 through 2017; and;

(C) the energy storage research center program under paragraph (6) $100,000,000 for each of fiscal years 2008 through 2017.

SEC. 245. ADVANCED TRANSPORTATION TECHNOLOGY PROGRAM.

(a) ELECTRIC DRIVE VEHICLE DEMONSTRATION PROGRAM.—

(1) DEFINITION OF ELECTRIC DRIVE VEHICLE.—In this subsection, the term ''electric drive vehicle'' means a precommercial vehicle that—

(A) draws motive power from a battery with at least 4 kilowatt-hours of electricity;

(B) can be recharged from an external source of electricity for motive power; and

(C) is a light-, medium-, or heavy-duty onroad or nonroad vehicle.

(2) PROGRAM.—The Secretary shall establish a competitive program to provide grants for demonstrations of electric drive vehicles.

(3) ELIGIBILITY.—A State government, local government, metropolitan transportation authority, air pollution control district, private entity, and nonprofit entity shall be eligible to receive a grant under this subsection.

(4) PRIORITY.—In making grants under this subsection, the Secretary shall give priority to proposals that—

(A) are likely to contribute to the commercialization and production of electric drive vehicles in the United States; and

(B) reduce petroleum usage.

(5) SCOPE OF DEMONSTRATIONS.—The Secretary shall ensure, to the extent practicable, that the program established under this subsection includes a variety of applications, manufacturers, and end-uses.

(6) REPORTING.—The Secretary shall require a grant recipient under this subsection to submit to the Secretary, on an annual basis, data relating to vehicle, performance, life cycle costs, and emissions of vehicles demonstrated under the grant, including emissions of greenhouse gases.

(7) COST SHARING.—Section 988 of the Energy Policy Act of 2005 (42 U.S.C. 16352) shall apply to a grant made under this subsection.

(8) AUTHORIZATIONS OF APPROPRIATIONS.—There are authorized to be appropriated to carry out this subsection $60,000,000 for each of fiscal years 2008 through 2012, of which not less than $20,000,000 shall be available each fiscal year only to make grants local and municipal governments.

(b) NEAR-TERM OIL SAVING TRANSPORTATION DEPLOYMENT PROGRAM.—

(1) DEFINITION OF QUALIFIED TRANSPORTATION PROJECT.—In this subsection, the term ''qualified transportation project'' means—

(A) a project that simultaneously reduces emissions of criteria pollutants, greenhouse gas emissions, and petroleum usage by at least 40 percent as compared to commercially available, petroleum-based technologies used in nonroad vehicles; and

(B) an electrification project involving onroad commercial trucks, rail transportation, or ships, and any associated infrastructure (including any panel upgrades, battery chargers, trenching, and alternative fuel infrastructure).

(2) PROGRAM.—Not later than 1 year after the date of enactment of this Act, the Secretary, in consultation with the Secretary of Transportation, shall establish a program to provide grants to eligible entities for the conduct of qualified transportation projects.

(3) PRIORITY.—In providing grants under this subsection, the Secretary shall give priority to large-scale projects and large-scale aggregators of projects.

(4) COST SHARING.—Section 988 of the Energy Policy Act of 2005 (42 U.S.C. 16352) shall apply to a grant made under this subsection.

(5) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to carry this subsection $90,000,000 for each of fiscal years 2008 through 2013.

Subtitle D—Setting Energy Efficiency Goals

SEC. 251. NATIONAL GOALS FOR ENERGY SAVINGS IN TRANSPORTATION.

(a) GOALS.—The goals of the United States are to reduce gasoline usage in the United States from the levels projected under subsection (b) by—

(1) 20 percent by calendar year 2017;

(2) 35 percent by calendar year 2025; and

(3) 45 percent by calendar year 2030.

(b) MEASUREMENT.—For purposes of subsection (a), reduction in gasoline usage shall be measured from the estimates for each year in subsection (a) contained in the reference case in the report of the Energy Information Administration entitled ''Annual Energy Outlook 2007''.

(c) STRATEGIC PLAN.—

(1) IN GENERAL.—Not later than 1 year after the date of enactment of this Act, the Secretary, in cooperation with the Administrator of the Environmental Protection Agency and the heads of other appropriate Federal agencies, shall develop a strategic plan to achieve the national goals for reduction in gasoline usage established under subsection (a).

(2) PUBLIC INPUT AND COMMENT.—The Secretary shall develop the plan in a manner that provides appropriate opportunities for public comment.

(d) PLAN CONTENTS.—The strategic plan shall—

(1) establish future regulatory, funding, and policy priorities to ensure compliance with the national goals;

(2) include energy savings estimates for each sector; and

(3) include data collection methodologies and compilations used to establish baseline and energy savings data.

(e) PLAN UPDATES.—

(1) IN GENERAL.—The Secretary shall—

(A) update the strategic plan biennially; and

(B) include the updated strategic plan in the national energy policy plan required by section 801 of the Department of Energy Organization Act (42 U.S.C. 7321).

(2) CONTENTS.—In updating the plan, the Secretary shall—